

IN THE SPECIFICATION:

On page 1, prior to line 5, please insert the following headings and paragraph:

--Cross Reference to Related Applications

This application is for entry into the U.S. national phase under §371 for International Application No. PCT/IB02/002449 having an international filing date of June 27, 2002, and from which priority is claimed under all applicable sections of Title 35 of the United States Code including, but not limited to, Sections 120, 363 and 365(c).

Technical Field--

On page 1, prior to line 10, please insert the following heading:

--Background of the Invention--

On page 1, please amend the paragraph beginning at line 15 as follows:

--The electrical devices and units built-in a motor vehicle all have to be energized by the power supply of the motor vehicle, typically ~~an accumulator~~ a battery of limited capacity. The ~~aceumulator~~ battery of a motor vehicle is charged during operation of the engine of the motor vehicle so that the power consumption of electrical devices and units of the motor vehicle represents no serious problem while the engine is running. But the power consumption of electrical devices and units consuming power from the ~~aceumulator~~ battery ~~during the stop of~~ when the engine of the motor vehicle is not running causes a decharging of the ~~aceumulator~~ battery and hence causes a problem. Especially, electrical devices and units operable in a stand-by operation mode have to be designed in a power saving way. The stand-by operation mode allows for example to activate the device or unit being in the stand-by operation mode via a central control unit of the motor vehicle.--

On page 2, please amend the paragraph beginning at line 1 as follows:

-- The manufacturer of motor vehicles impose strict regulations for the requirements to be fulfilled by electrical devices and units to be included in motor vehicles, especially power consumption of electrical devices and units being in a stand-by operation mode is of special interest. The power consumption has to be minimized or has to be below a maximum level or power consumption, in order to ensure that the ~~acecumulator~~ battery is not ~~deloaded~~ drained too much, especially in case the motor vehicle is parked. Certain electrical circuits have been implemented into such devices and units to offer stand-by operation mode. These electrical circuits of the state of the art comprise a large number of active components conventionally requiring to be energized by a voltage regulator.--

On page 2, prior to line 10, please insert the following heading:

--Summary of the Invention--

On page 2, please amend the paragraph beginning at line 10 as follows:

--The present invention relates to the aspect of providing a power signal from an external power supply, here the ~~acecumulator~~ battery of the motor vehicle, to an electric device, wherein the power supply is operable with power-up/power-down signals switching on or off the connection of the external power supply to the mobile device, respectively.--

On page 2, please amend the paragraph beginning at line 15 as follows:

-- The inventive concept relates to an electrical circuit to be implemented into electrical devices energized by external power supplies and to be activated by an external power-on signal operable with a stand-by operation mode. An advantage of the electrical circuit according to an embodiment of the invention is that the electrical circuit does not consume substantial amounts of power. Further, the electrical circuit implements further a voltage level check which prevents ~~damages~~ damage and faulty operation of the electric device

coupled to the electrical circuit by checking if the supplied voltage of the external power supply is within a certain pre-defined voltage level range.--

On page 2, please amend the paragraph beginning at line 24 as follows:

--The electrical circuit is designed to be composed of passive components requiring no dedicated power supply (voltage regulator) during the stand-by operation. The electrical circuit comprising passive components is clearly economical and even more reliable during its life-time.--

On page 2, please amend the paragraph beginning at line 32 as follows:

-- According to an embodiment of the invention, an electrical circuit for providing an electrical operable connection of an external power supply and an electrical motor vehicle built-in device is provided. The electrical circuit has a main input for coupling to the external power supply , a main output for coupling to the electrical device and a first electrical operable switch interconnected between the main input and the main output. The first electrical operable switch is operable in two switching positions, an open position and a closed position. The first electrical operable switch is conductive in case it is closed and is non-conductive in case it is opened . Further the electrical circuit is provided with at least one wake-up input to receive a wake-up signal and at least one sleep input to receive a sleep signal and the electrical circuit has a bi-stable sub-circuit coupled to the main input and coupled to the first electrical operable switch as well as connected to the at least one wake-up input and to the at least one sleep input The bi-stable circuit is operable such that receiving [[of]] a wake-up signal results in energizing [[of]] the bi-stable sub-circuit and receiving [[of]] a sleep signal results in de-energizing thereof. The energized bi-stable sub-circuit effects to close the first electrical operable switch and the corresponding de-energized bi-stable sub-circuit effects to open the first electrical operable switch.--

On page 5, please amend the paragraph beginning at line 26 as follows:

-- According to an embodiment of the invention, the motor vehicle built-in device is a free-hand installation main device for detachably connecting a mobile communication device and the external power supply is ~~an accumulator~~ a battery of a motor vehicle.--

On page 5, please amend the paragraph beginning at line 30 as follows:

-- According to an embodiment of the invention, a motor vehicle built-in device is provided which is operably connected to an external power supply. The motor vehicle built-in device comprises a plurality of electrical components energized by the external power supply and an electrical circuit for providing an electrical operable connection of an external power supply and the motor vehicle built-in device. The electrical circuit further implements a main input and a main output. The main input is coupled to the external power supply, for example ~~an accumulator~~ a battery of the motor vehicle including the built-in device. The main output is for example coupled internally to the components of the built-in device to be energized. The first electrical operable switch is operable in two switching positions, an open position and a closed position. The first electrical operable switch is conductive in case it is closed and is non-conductive in case it is open. Further the electrical circuit is provided with at least one wake-up input to receive a wake-up signal and at least one sleep input to receive a sleep signal and the electrical circuit has a bi-stable sub-circuit coupled to the main input and coupled to the first electrical operable switch as well as connected to the at least one wake-up input and to the least one sleep input. The bi-stable circuit is operable such that receiving of a wake-up signal results in energizing of the bi-stable sub-circuit and receiving of a sleep signal results in de-energizing thereof. The energized bi-stable sub-circuit effects to close the first electrical operable switch and the corresponding de-energized bi-stable sub-circuit effects to open the first electrical operable switch.--

On page 6, prior to line 29, please insert the following heading:

--Brief Description of the Drawings--

On page 7 prior to line 2, please insert the following heading:

--Detailed Description--

On page 7, please amend the paragraph beginning at line 6 as follows:

--Fig. 1 illustrates a typical state of the art circuit providing connectivity of an electrical device to an external power supply. The depicted circuit is dedicated to provide connectivity of an electrical device to an external power supply, such as the aceumulator battery of the motor vehicle, wherein the external power supply can be switched on and switched off using a switching on/off input I0 of the circuit controlling the main switch 31. A power supply input 30 is coupled to the external power supply, here a battery 35 and further the input 30 is coupled to the output 32 via the interconnected main switch 31. The output 32 provides the power to the electrical device.--

On page 8, please amend the paragraph beginning at line 16 as follows:

-- The main disadvantage of the described state of the art circuit is that a couple of active components, i.e. components requiring power, consume power of the battery 35 which is the main power supply of the circuit and the device coupled to output 32. The active components, here voltage regulator 10, operational amplifiers 11 and 12, logical OR component 13 and RS-flip-flop 14, consume power even in case the device coupled to output 32 is switched off via main switch 31. Especially in the case of accumulators and batteries used as main power supply supplies coupled to input 30, the reduction of power consumption may be essential since the capacity of such power supplies is limited. Further disadvantages are the complexity of the active components and the costs of them. The

complexity may result in a greater number of defects during the expected life time of the circuit which is especially in view of the high costs of the components not efficient.--

On page 8, please amend the paragraph beginning at line 31 as follows:

-- Fig .2 illustrates a circuit providing connectivity of an electrical device to an external power supply according to an embodiment of the invention. The depicted circuit can be embedded in a free-hand installation providing connectivity of an electric device, e.g. mobile device, especially a mobile phone, a mobile communication handheld and further electric mobile devices, to the electronics of a motor vehicle, especially a car. Such a free-hand installation has a mechanical holder or a support for taking a mobile phone and one or several electrical contacts to couple the mobile phone to several electrical units or components of the motor vehicle, respectively, such as a power supply, an ignition, an external antenna, a light, a data bus embedded in the motor vehicle for controlling electrical installations, an on-board multifunctional processing device, a microphone in the interior of the motor vehicle, a car radio and/or the speaker of the car radio. The free-hand installation is energized by the ~~accumulator~~ battery of the motor vehicle and is operable with a stand-by operation mode. During the stand-by operation mode the free-hand installation electronic of the motor vehicle is allowed to put the free-hand installation into operation by transmitting a dedicated wake-up signal causing to activate the functionality of the free-hand installation.--